

CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - FEBRUARY 2022



PC-1024

Lab Name IMPULSE DIAGNOSTICS

Lab No

14869

Constituent Group Chemistry I

Date of Result Entered :

21/02/2022

PT item Lyophilized Serum

Date of Report Published :

05/03/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	GLUCOSE	Hexokinase	Siemens (Advia Series / Dimension Series)	87	284.21	4.29	12.20	274 mg/dl	-0.84	2.62
2	UREA	Urease UV / GLDH	Siemens (Advia Series / Dimension Series)	116	27.83	6.83	1.90	28 mg/dl	0.09	0.35
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Siemens (Advia Series / Dimension Series)	102	1.18	8.34	0.10	1.17 mg/dl	-0.10	0.02
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Siemens (Advia Series / Dimension Series)	107	5.22	5.59	0.29	5.2 mg/dl	-0.07	0.06
5	T-PROTEIN	Biuret - Colorimetric	Siemens (Advia Series / Dimension Series)	112	5.26	5.15	0.27	5.5 g/dl	0.89	0.05
6	ALBUMIN	BCP - Bromocresol purple (colorimetric)	Siemens (Advia Series / Dimension Series)	79	3.21	4.80	0.15	3 g/dl	-1.36	0.03
7	CALCIUM	OCP (O - Cresolphthalein Compleazone)	Siemens (Advia Series / Dimension Series)	74	10.33	5.51	0.57	10.6 mg/dl	0.47	0.13
8	URIC ACID	Enzymatic / Uricase Colorimetric	Siemens (Advia Series / Dimension Series)	106	3.91	4.24	0.17	3.8 mg/dl	-0.66	0.03
9	CHOLESTEROL	CHOD-PAP	Siemens (Advia Series / Dimension Series)	97	92.59	6.61	6.12	95 mg/dl	0.39	1.24
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Siemens (Advia Series / Dimension Series)	109	106.20	7.39	7.84	106 mg/dl	-0.03	1.50
11	HDL CHO	Direct method / Enzymatic colorimetric	Siemens (Advia Series / Dimension Series)	100	27.80	9.24	2.57	29 mg/dl	0.47	0.51
12	AST	UV kinetic(with & without PLP (P-5-P))	Siemens (Advia Series / Dimension Series)	94	160.48	7.64	12.26	177 U/L	1.35	2.53
13	ALT	UV kinetic(with & without PLP (P-5-P))	Siemens (Advia Series / Dimension Series)	94	90.57	8.65	7.83	93 U/L	0.31	1.62
14	ALP	PNP AMP kinetic	Siemens (Advia Series / Dimension Series)	104	67.50	10.99	7.42	80 U/L	1.69	1.45
15	AMYLASE	CNPG3	Siemens (Advia Series / Dimension Series)	56	93.90	4.27	4.01	93 U/L	-0.22	1.07
16	IRON	Ferrene (No Protein Removal)	Siemens (Advia Series / Dimension Series)	28	106.25	4.70	4.99	103 ug/dl	-0.65	1.89

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ±1.01 to ±2.00	Good.
Within ±2.01 to ±2.99	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

LAB ADDRESS :

**IMPULSE DIAGNOSTICS
HAILAKANDI ROAD
SILCHAR
ASSAM788015**

**Coordinator Contact Details:
Email: clinqc@cmcvellore.ac.in
Contact Number: 0416-2283102**

Pamela Christudoss

**Dr. Pamela Christudoss
CMC EQAS Coordinator
Christian Medical College, Vellore**

Homogeneity and Stability of the sample is passed.

Data in CMC EQAS reports is confidential

CMC EQAS does not sub contract any components

******* End of Report *******



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
 CMC EXTERNAL QUALITY ASSURANCE SCHEME
 MONTHLY SUMMARY REPORT - FEBRUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	HbA1c	Date of Result Entered :	19/02/2022
PT item	Lyophilized Whole blood	Date of Report Published :	05/03/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	HbA1c	HPLC-Ion Exchange	Biorad (D10 / D100 / Variant Turbo)	598	9.32	3.42	0.32	9.1 %	-0.69	0.03

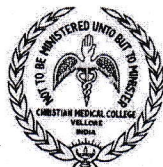
SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

LAB ADDRESS :
 IMPULSE DIAGNOSTICS
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Coordinator Contact Details:
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Pamela Christudoss
 Dr. Pamela Christudoss
 CMC EQAS Coordinator
 Christian Medical College, Vellore

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CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - FEBRUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	Reproductive Hormones	Date of Result Entered :	19/02/2022
PT item	Lyophilized Serum	Date of Report Published :	05/03/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	LH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	71	3.21	10.73	0.34	3.42 mIU/mL	0.61	0.08
2	FSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	71	31.36	9.06	2.84	31.89 mIU/mL	0.19	0.67
3	PROLACTIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	76	13.85	9.57	1.33	13.3 ng/mL	-0.41	0.30

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

LAB ADDRESS :
IMPULSE DIAGNOSTICS
HAILAKANDI ROAD
SILCHAR
ASSAM788015

Coordinator Contact Details:
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Dr. Pamela Christudoss
CMC EQAS Coordinator
Christian Medical College, Vellore

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***** End of Report *****



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DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - FEBRUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	Thyroid Hormones & Cortisol	Date of Result Entered :	19/02/2022
PT item	Lyophilized Serum	Date of Report Published :	05/03/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	TOTAL THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	146	8.74	11.20	0.98	9.7 ug/dL	0.98	0.16
2	FREE THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	93	1.94	9.32	0.18	1.78 ng/dL	-0.88	0.04
3	TSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	150	11.58	9.05	1.05	11.03 ulU/ml	-0.52	0.17
4	TOTAL T3	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	140	124.91	11.58	14.47	148 ng/dL	1.60	2.45

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

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PROFICIENCY TESTING REPORT
ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME
 NABL accredited program as per ISO/IEC 17043:2010 standard
 Organized By Department of Hematology, AIIMS, New Delhi-110029



Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 3150

Distribution No.: 154-H

Month/Year: December/2021

Instrument ID: B6923

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
 Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 10-03-2022[Final].

CBC and Retic Assessment

Test Parameters	S.No.	Among Lab (Accuracy Testing)						Within Lab (Precision Testing)			
		Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10 ³ /µl	1	5.4	5.1	10.5	10.29	0.0390	0.33	0.3	0.1	0.1330	1.80
RBC x10 ⁶ /µl	1	5.09	5.08	10.17	10.06	0.0170	0.40	0.01	0.04	0.0040	-1.01
Hb g/dl	1	14.9	14.8	29.7	29.5	0.0450	0.28	0.1	0.1	0.0120	0.00
HCT%	1	44.3	44.3	88.6	91.9	0.2990	-0.66	0	0.4	0.0410	-1.08
MCV-fl	1	87.2	87	174.2	183.2	0.4500	-1.18	0.2	0.3	0.0320	-0.45
MCH-Pg	1	29.3	29.1	58.4	58.7	0.1110	-0.17	0.2	0.2	0.0220	0.00
MCHC-g/dl	1	33.6	33.4	67	64.1	0.2060	0.72	0.2	0.2	0.0260	0.00
Plt. x10 ³ /µl	1	285	276	561	482	2.74	1.87	9	7	0.63	0.32
Retic %	2	5.4	4.8	10.2	13	0.28	-0.67	0.6	0.5	0.05	0.17

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=0.00 , Poly=48.00 L=4.00, E=2.00, Mono/Promono=1.00 , B1=1.00 P.M.=1.00, Mye=19.00, Meta=13.00, Other=0.00	Poly: 40 - 60, Myelo: 11 - 22, Meta: 6 - 14, Blast/nRBC: 1 - 15, Promyelo/Eos/Baso/Lympho/Mono: 0 - 5		
RBC Morphology	3	MOSTLY NORMOCYTIC NORMOCHROMIC WITH OCCASIONAL MICROCYTIC CELLS.	Predominantly: Microcytosis, Anisocytosis; Moderate: Hypochromia, Poikilocytosis; Mild: Normocytic/Normochromic, Macrocytosis		
Diagnosis	3	CHRONIC MYELOID LEUKEMIA.	Chronic Myeloid Leukemia (CML)		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 154--H	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
				Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC x10 ³ /μl	1	116	115	85.22	93.91	0.87	4.35	13.91	1.74
RBC x10 ⁶ /μl	1	116	116	90.52	88.79	5.17	6.03	4.31	5.18
Hb g/dl	1	116	116	92.24	91.38	4.31	4.31	3.45	4.31
HCT%	1	116	115	96.52	97.39	1.74	0.00	1.74	2.61
MCV-fl	1	116	115	92.17	84.35	5.22	6.09	2.61	9.56
MCH-Pg	1	116	115	92.17	92.17	6.09	4.35	1.74	3.48
MCHC-g/dl	1	116	115	98.26	91.3	0.87	5.22	0.87	3.48
Plt. x10 ³ /μl	1	116	115	86.96	93.91	9.57	5.22	3.47	0.87
ReticCount%	2	116	116	98.28	92.24	1.72	2.59	0.00	5.17
PS Assessment	3	116	91	Satisfactory :98.31%, Borderline Sat. :0.85%, Unsatisfactory :0.84%					

***Comments:**

1). Among Lab (EQA) : Results acceptable.

2). Within Lab (IQA) : Precision acceptable.

Note-1: EQA (External Quality Assurance) : Your Performance among various of participating labs in PT, to determine the accuracy of your results.

IQA (Internal Quality Assurance) : Your Performance of comparison of two consecutive measurement values within your lab to test the precision of your autoanalyzer.

Note-2: Z score among & within lab were calculated, as per to ISO/IEC 13528:2015 standard. Z score among lab (EQA)= (Your Result Sum of two values - Consensus Result sum of two values)/(Normalised IQR)

Z score within lab (IQA)= (Your Result Difference of two values - Consensus Result difference of two values)/(Normalised IQR)

IQR = Quartile 3 - Quartile 1 of participant data, Normalised IQR = 0.7413 x IQR

Note-3: Z score 0 to ±2: Acceptable, Z score ±2 to ±3 :Warning Signal, Z score > ±3 : Unacceptable [As per ISO/IEC 13528:2015 standard]

Note-4: Z score value between "0 to ±2" are texted in green colour. Z score value between "±2 to ±3" are texted in orange colour. Z score value > ±3 are texted in red colour.

Note-5: Homogeneity and stability testing of PT sample were done as per ISO 13528:2015 standard. To pass homogeneity test, between sample SD (Ss) should be smaller than the check value (0.3*SDPA). To pass the stability test, average difference in measurement values of first and last day sample ($\bar{x}-\bar{y}$) should be smaller than the check value (0.3*SDPA).

Note-6: ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

Note-7: Participants are free to use methods/analyzer of their own choice.

Note-8: Proficiency testing (PT) samples are sent quarterly to each participant.

Note-9: All the necessary details regarding design and implementation of PT, are provided in the instruction sheet as well as on programme's website www.ishtmaiimseqap.com.

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

-----End Of Report-----



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
CMC EXTERNAL QUALITY ASSURANCE SCHEME
MONTHLY SUMMARY REPORT - JANUARY 2022



PC-1024

Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**
Constituent Group **Chemistry I** Date of Result Entered : **19/01/2022**
PT item **Lyophilized Serum** Date of Report Published : **07/02/2022**

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	Hexokinase	Siemens (Advia Series / Dimension Series)	82	132.31	4.25	5.63	134 mg/dl	0.30	1.24
2	UREA	Urease UV / GLDH	Siemens (Advia Series / Dimension Series)	103	46.75	7.11	3.32	45 mg/dl	-0.53	0.66
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Siemens (Advia Series / Dimension Series)	94	1.78	5.90	0.10	1.68 mg/dl	-0.95	0.02
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Siemens (Advia Series / Dimension Series)	102	2.35	5.19	0.12	2.3 mg/dl	-0.41	0.02
5	T-PROTEIN	Biuret - Colorimetric	Siemens (Advia Series / Dimension Series)	103	4.80	3.31	0.16	5.1 g/dl	1.89	0.03
6	ALBUMIN	BCP - Bromocresol purple (colorimetric)	Siemens (Advia Series / Dimension Series)	75	2.84	5.31	0.15	2.9 g/dl	0.40	0.03
7	CALCIUM	OCPC (O - Cresolphthalein Compleazone)	Siemens (Advia Series / Dimension Series)	66	8.64	4.92	0.42	8.6 mg/dl	-0.09	0.10
8	URIC ACID	Enzymatic / Uricase Colorimetric	Siemens (Advia Series / Dimension Series)	97	6.79	3.99	0.27	6.8 mg/dl	0.04	0.05
9	CHOLESTEROL	CHOD-PAP	Siemens (Advia Series / Dimension Series)	96	82.69	7.06	5.84	87 mg/dl	0.74	1.19
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Siemens (Advia Series / Dimension Series)	100	128.52	4.95	6.36	127 mg/dl	-0.24	1.27
11	HDL CHO	Direct method / Enzymatic colorimetric	Siemens (Advia Series / Dimension Series)	89	25.37	7.80	1.98	26 mg/dl	0.32	0.42
12	ALP	PNP AMP kinetic	Siemens (Advia Series / Dimension Series)	96	65.23	7.85	5.12	89 U/L	4.64	1.05
13	AMYLASE	CNPG3	Siemens (Advia Series / Dimension Series)	52	40.62	5.74	2.33	42 U/L	0.59	0.65
14	IRON	Ferrene (No Protein Removal)	Siemens (Advia Series / Dimension Series)	25	136.25	3.41	4.64	136 ug/dl	-0.05	1.86

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ±1.01 to ±2.00	Good.
Within ±2.01 to ±2.99	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

LAB ADDRESS :
IMPULSE DIAGNOSTICS

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***** End of Report *******

Department of Biochemistry

Internal Quality Control (IQC) & CV% (Biochemistry)

S.NO	Date	Nature of Problem	Root cause analysis and corrective and preventive actions	Date of Closure	Signature
1	03/01/2022 (Date of Result)	Value of CV% of Glucose was high	We have done the machine maintenance checked for all parameter's, Distilled water has been changed, Probe has been checked and changed, again all parameter has been recalibrated by the service engineer. Temperature record were checked. Then value reports came normal.	22/02/2022	Janta DM

IMPULSE
DIAGNOSTICS



LAB MONTHLY SUMMARY



Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**
 Month **December** Year **2021**
 Constituent Group **Chemistry I**



Date of Result Entered : 03/12/2021

Date of Report Published : 03/01/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	Hexokinase	Siemens (Advia Series / Dimension Series)	86	186.26	3.53	6.57	166 mg/dl	-3.09	1.42
2	UREA	Urease UV / GLDH	Siemens (Advia Series / Dimension Series)	108	89.78	5.81	5.21	88 mg/dl	-0.34	1.00
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Siemens (Advia Series / Dimension Series)	96	7.33	3.89	0.28	7.14 mg/dl	-0.67	0.06
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Siemens (Advia Series / Dimension Series)	105	2.41	4.78	0.12	2.4 mg/dl	-0.09	0.02
5	T-PROTEIN	Biuret - Colorimetric	Siemens (Advia Series / Dimension Series)	109	5.07	3.43	0.17	5.1 g/dl	0.17	0.03
6	ALBUMIN	BCP - Bromocresol purple (colorimetric)	Siemens (Advia Series / Dimension Series)	89	3.05	5.48	0.17	2.9 g/dl	-0.90	0.04
7	CALCIUM	OCPC (O - Cresolphthalein Compleazone)	Siemens (Advia Series / Dimension Series)	60	10.47	5.46	0.57	10.9 mg/dl	0.75	0.15
8	URIC ACID	Enzymatic / Uricase Colorimetric	Siemens (Advia Series / Dimension Series)	100	8.81	3.58	0.32	8.7 mg/dl	-0.35	0.06
9	CHOLESTEROL	CHOD-PAP	Siemens (Advia Series / Dimension Series)	106	88.50	6.50	5.75	83 mg/dl	-0.96	1.12
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Siemens (Advia Series / Dimension Series)	102	204.83	3.89	7.98	192 mg/dl	-1.61	1.58
11	HDL CHO	Direct method / Enzymatic colorimetric	Siemens (Advia Series / Dimension Series)	95	26.50	5.34	1.42	27 mg/dl	0.35	0.29
12	AST	UV kinetic with PLP (P-5-P)	Siemens (Advia Series / Dimension Series)	99	117.92	6.33	7.46	106 U/L	-1.60	1.50
13	ALT	UV kinetic with PLP (P-5-P)	Siemens (Advia Series / Dimension Series)	91	66.71	9.89	6.60	51 U/L	-2.38	1.38
14	ALP	PNP AMP kinetic	Siemens (Advia Series / Dimension Series)	95	198.87	7.44	14.79	165 U/L	-2.29	3.04
15	AMYLASE	CNPG3	Siemens (Advia Series / Dimension Series)	63	56.08	5.65	3.17	52 U/L	-1.29	0.80
16	IRON	Ferrene (No Protein Removal)	Siemens (Advia Series / Dimension Series)	26	75.99	6.58	5.00	69 ug/dl	-1.40	1.96

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ±1.01 to ±2.00	Good.
Within ±2.01 to ±2.99	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

Homogeneity and Stability of the sample is passed.

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Contact details:

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Contact Number: 0416-2283102

Pamela Christudoss

**Dr. Pamela Christudoss
CMC EQAS Co-Ordinator
Christian Medical College, Vellore**

******* End of Report *******

LAB MONTHLY SUMMARY



Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**
 Month **December** Year **2021**
 Constituent Group **HbA1c**

Date of Result Entered : **03/12/2021**Date of Report Published : **03/01/2022**

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	HbA1c	HPLC-Ion Exchange	Biorad (D10 / D100 / Variant Turbo)	549	5.91	4.90	0.29	5.9 %	-0.03	0.02

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

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Contact Number: 0416-2283102

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 CMC EQAS Co-Ordinator
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LAB MONTHLY SUMMARY



Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**
 Month **December** Year **2021**
 Constituent Group **Reproductive Hormones**

Date of Result Entered : **03/12/2021**Date of Report Published : **03/01/2022**

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	LH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	71	10.42	10.69	1.11	11.36 mIU/mL	0.84	0.26
2	FSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	65	18.11	12.77	2.31	22.06 mIU/mL	1.71	0.57
3	PROLACTIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	78	45.66	9.77	4.46	47.58 ng/mL	0.43	1.01

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

Homogeneity and Stability of the sample is passed.

Data in CMC EQAS reports is confidential

Contact details:

Email: clinq@cmcvellore.ac.in

Contact Number: 0416-2283102

Dr. Pamela Christudoss
 CMC EQAS Co-Ordinator
 Christian Medical College, Vellore

***** End of Report *****

LAB MONTHLY SUMMARY



Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**
 Month **December** Year **2021**
 Constituent Group **Thyroid Hormones & Cortisol**

Date of Result Entered : **03/12/2021**Date of Report Published : **03/01/2022**

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	TOTAL THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	104	6.82	9.43	0.64	6.5 ug/dL	-0.50	0.13
2	FREE THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	81	1.85	11.40	0.21	1.68 ng/dL	-0.81	0.05
3	TSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	121	6.89	10.73	0.74	6.78 uIU/ml	-0.15	0.13
4	TOTAL T3	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	104	116.44	11.42	13.30	107 ng/dL	-0.71	2.61

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

Homogeneity and Stability of the sample is passed.

Data in CMC EQAS reports is confidential

Contact details:

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Contact Number: 0416-2283102

Dr. Pamela Christudoss
 CMC EQAS Co-Ordinator

Christian Medical College, Vellore

***** End of Report *****



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - JANUARY 2022



PC-1024

Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**
 Constituent Group **Chemistry I** Date of Result Entered : **19/01/2022**
 PT item **Lyophilized Serum** Date of Report Published : **07/02/2022**

SI.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	GLUCOSE	Hexokinase	Siemens (Advia Series / Dimension Series)	82	132.31	4.25	5.63	134 mg/dl	0.30	1.24
2	UREA	Urease UV / GLDH	Siemens (Advia Series / Dimension Series)	103	46.75	7.11	3.32	45 mg/dl	-0.53	0.66
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Siemens (Advia Series / Dimension Series)	94	1.78	5.90	0.10	1.68 mg/dl	-0.95	0.02
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Siemens (Advia Series / Dimension Series)	102	2.35	5.19	0.12	2.3 mg/dl	-0.41	0.02
5	T-PROTEIN	Biuret - Colorimetric	Siemens (Advia Series / Dimension Series)	103	4.80	3.31	0.16	5.1 g/dl	1.89	0.03
6	ALBUMIN	BCP - Bromocresol purple (colorimetric)	Siemens (Advia Series / Dimension Series)	75	2.84	5.31	0.15	2.9 g/dl	0.40	0.03
7	CALCIUM	OCPC (O - Cresolphthalein Compleazone)	Siemens (Advia Series / Dimension Series)	66	8.64	4.92	0.42	8.6 mg/dl	-0.09	0.10
8	URIC ACID	Enzymatic / Uricase Colorimetric	Siemens (Advia Series / Dimension Series)	97	6.79	3.99	0.27	6.8 mg/dl	0.04	0.05
9	CHOLESTEROL	CHOD-PAP	Siemens (Advia Series / Dimension Series)	96	82.69	7.06	5.84	87 mg/dl	0.74	1.19
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Siemens (Advia Series / Dimension Series)	100	128.52	4.95	6.36	127 mg/dl	-0.24	1.27
11	HDL CHO	Direct method / Enzymatic colorimetric	Siemens (Advia Series / Dimension Series)	89	25.37	7.80	1.98	26 mg/dl	0.32	0.42
12	ALP	PNP AMP kinetic	Siemens (Advia Series / Dimension Series)	96	65.23	7.85	5.12	89 U/L	4.64	1.05
13	AMYLASE	CNPG3	Siemens (Advia Series / Dimension Series)	52	40.62	5.74	2.33	42 U/L	0.59	0.65
14	IRON	Ferrene (No Protein Removal)	Siemens (Advia Series / Dimension Series)	25	136.25	3.41	4.64	136 ug/dl	-0.05	1.86

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

LAB ADDRESS :
IMPULSE DIAGNOSTICS

HAILAKANDI ROAD
SILCHAR
ASSAM788015

Coordinator Contact Details:
Email: clinqc@cmcvellore.ac.in
Contact Number: 0416-2283102

Pamela Christudoss

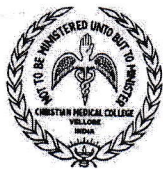
Dr. Pamela Christudoss
CMC EQAS Coordinator
Christian Medical College, Vellore

Homogeneity and Stability of the sample is passed.

Data in CMC EQAS reports is confidential

CMC EQAS does not sub contract any components

***** End of Report *****



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - JANUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	HbA1c	Date of Result Entered :	19/01/2022
PT item	Lyophilized Whole blood	Date of Report Published :	07/02/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	HbA1c	HPLC-Ion Exchange	Biorad (D10 / D100 / Variant Turbo)	545	6.22	4.60	0.29	6.1 %	-0.42	0.02

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

LAB ADDRESS :
 IMPULSE DIAGNOSTICS
 HAILAKANDI ROAD
 SILCHAR
 ASSAM788015

Coordinator Contact Details:
 Email:clinqc@cmcvellore.ac.in
 Contact Number: 0416-2283102

Pamela Christudoss
 Dr. Pamela Christudoss
 CMC EQAS Coordinator
 Christian Medical College, Vellore

Homogeneity and Stability of the sample is passed.

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***** End of Report *****



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - JANUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	Reproductive Hormones	Date of Result Entered :	19/01/2022
PT item	Lyophilized Serum	Date of Report Published :	07/02/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	LH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	68	2.08	10.80	0.22	2.1 mIU/mL	0.09	0.05
2	FSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	69	13.66	11.29	1.54	14.39 mIU/mL	0.47	0.37
3	PROLACTIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	71	6.29	6.95	0.44	6.4 ng/mL	0.25	0.10

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

LAB ADDRESS :
 IMPULSE DIAGNOSTICS
 HAILAKANDI ROAD
 SILCHAR
 ASSAM788015

Coordinator Contact Details:
 Email:clinqc@cmcvellore.ac.in
 Contact Number: 0416-2283102

Pamela Christudoss
 Dr. Pamela Christudoss
 CMC EQAS Coordinator
 Christian Medical College, Vellore

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***** End of Report *****



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - JANUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	Thyroid Hormones & Cortisol	Date of Result Entered :	19/01/2022
PT item	Lyophilized Serum	Date of Report Published :	07/02/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	TOTAL THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	104	5.28	12.11	0.64	4.4 ug/dL	-1.38	0.13
2	FREE THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	88	1.56	9.88	0.15	1.81 ng/dL	1.62	0.03
3	TSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	117	1.38	11.26	0.16	1.36 uIU/ml	-0.13	0.03
4	TOTAL T3	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	102	93.79	11.47	10.76	112 ng/dL	1.69	2.13

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

LAB ADDRESS :
 IMPULSE DIAGNOSTICS
 HAILAKANDI ROAD
 SILCHAR
 ASSAM788015

Coordinator Contact Details:
 Email:clinqc@cmcvellore.ac.in
 Contact Number: 0416-2283102


Pamela Christudoss
 Dr. Pamela Christudoss
 CMC EQAS Coordinator
 Christian Medical College, Vellore

Homogeneity and Stability of the sample is passed.
 Data in CMC EQAS reports is confidential
 CMC EQAS does not sub contract any components
 ***** End of Report *****

IMPULSE DIAGNOSTICS
DEPARTMENT OF LABORATORY SERVICES.

Department of Biochemistry

Internal Quality Control (IQC) & CV% (Biochemistry)

S.NO	Date	Nature of Problem	Root cause analysis and corrective and preventive actions	Date of Closure	Signature
1	07/02/2022 (Date of Result)	Value of CV% of ALP was high	We have done the machine maintenance checked for all parameter's, Distilled water has been changed, Probe has been checked and changed, again all parameter has been recalibrated by the service engineer. Temperature record were checked. Then value reports came normal.	8/02/2022	 APPROVED BY IMPULSE DIAGNOSTICS S. CHITRA IS BENEFITUR

CROSS
CHECK

+ IMPULSE DIAGNOSTICS +
+ 14:17 Jan 21 2022 +

PRINT RESULTS

Patient: JABA DEY
Sample No.: 465313SRM
Location: ..
Sample: SERUM
Priority: ROUTINE
Entered: 13:17 Jan 21 2022

Position: 1
Segment: E

TEST	RESULT	REF. INTERVAL	UNITS
URCA	3.6	2.6-7.2	mg/dL
ALB	4.3	3.4-5.0	g/dL
BUN	18	15-39	mg/dL
GGT	35	5-85	U/L
CRE2	0.86	0.55-1.30	mg/dL
TBI	0.5	0.2-1.0	mg/dL
DBI	0.2	0.0-0.2	mg/dL
TP	8.1	6.4-8.2	g/dL
ALPI	134 HI	46-116	U/L
LDI	207 HI	100-190	U/L
AST	22	15-37	U/L
ALTI	32	14-63	U/L



Patient Ref. No. 3500000935020

CLIENT CODE : C000031906

CLIENT'S NAME AND ADDRESS :

IMPULSE DIAGNOSTICS
MEHERPUR, NEAR CO-OPERATIVE, ADJACENT TO ISHWAR CHANDRA
VIDYA SAGAR SCHOOL,

SILCHAR 788015
ASSAM INDIA
3842-224542 9435260624

SRL Ltd
BIOMED DIAGNOSTIC CENTRE, PROGRESSIVE TOWERS, N.S. AVENUE
SILCHAR, 788005
ASSAM, INDIA
Tel : 03842-220154/220155, Fax : 03842-220100
CIN - U74899PB1995PLC045956
Email : srilsilchar@rediffmail.com

PATIENT NAME : JABA ROY

PATIENT ID : JABAF21016635

ACCESSION NO : 0035VA006265 AGE : 56 Years SEX : Female

DRAWN : 21/01/2022 00:00

RECEIVED : 21/01/2022 18:00

REPORTED : 21/01/2022 19:20

REFERRING DOCTOR : DR. TANUJ KUMAR BISWAS

CLIENT PATIENT ID :

Test Report Status	Final	Results	Biological Reference Interval	Units
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BIO CHEMISTRY

ALKALINE PHOSPHATASE, SERUM

ALKALINE PHOSPHATASE	126	High 30 - 120	U/L
TOTAL PROTEIN, SERUM			
TOTAL PROTEIN	7.8	6.4 - 8.2	g/dL

Interpretation(s)

ALKALINE PHOSPHATASE, SERUM-Alkaline phosphatase (ALP) is a protein found in almost all body tissues. Tissues with higher amounts of ALP include the liver, bile ducts, and bone. Elevated Alkaline Phosphatase levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget's disease, Rickets, Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia, Malnutrition, Protein deficiency, Wilson's disease. TOTAL PROTEIN, SERUM-Serum total protein, also known as total protein, is a biochemical test for measuring the total amount of protein in serum. Protein in the plasma is made up of albumin and globulin

Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom's disease
Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.

End Of Report

Please visit www.srlworld.com for related Test Information for this accession

Dr. Ashish Kumar Das
Laboratory Head

Dr. Subhadip Bhattacharjee
Consultant Pathologist



Scan to View Details



Scan to View Report

CROSS
CHECK

+++++
+ IMPULSE DIAGNOSTICS
+ 15:16 Feb 18 2022
+++++

PRINT RESULTS

Patient: RU
Sample No.: 468902SRM
Location:
Sample: SERUM
Priority: ROUTINE
Entered: 12:43 Feb 18 2022

Position:
Segment:

TEST	RESULT	REF. INTERVAL	UNITS
TBI	0.2	0.2-1.0	mg/dL
TP	9.2 HI	6.4-8.2	g/dL
ALPI	98	46-116	U/L
TGL	90	30-150	mg/dL
LDI	145	100-190	U/L
CHOL	149	0-200	mg/dL
AST	15	15-37	U/L
ALTI	22	14-63	U/L
DBI	0.1	0.0-0.2	mg/dL
ALB	2.9 LO	3.4-5.0	g/dL
GGT	49	5-85	U/L



Patient Ref. No. 3500000942648

CLIENT CODE : C000031906

CLIENT'S NAME AND ADDRESS :

IMPULSE DIAGNOSTICS
MEHERPUR, NEAR CO-OPERATIVE, ADJACENT TO ISHWAR CHANDRA
VIDYA SAGAR SCHOOL,

SILCHAR 788015
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3842-224542 9435260624

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BIOMED DIAGNOSTIC CENTRE, PROGRESSIVE TOWERS, N.S. AVENUE
SILCHAR, 788005
ASSAM, INDIA
Tel : 03842-220154/220155, Fax : 03842-220100
CIN - U74899PB1995PLC045956
Email : srilsilchar@rediffmail.com

PATIENT NAME : RUSTANA MAZUMDER

PATIENT ID : RUSTF18027835

ACCESSION NO : 0035VB004918 AGE : 44 Years SEX : Female

DRAWN : 18/02/2022 04:00 RECEIVED : 18/02/2022 18:16 REPORTED : 18/02/2022 19:17

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status	Final	Results	Biological Reference Interval	Units
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BIO CHEMISTRY

ALANINE AMINOTRANSFERASE, SERUM

ALANINE AMINOTRANSFERASE (ALT/SGPT) 12 < 34.0 U/L

ALKALINE PHOSPHATASE, SERUM

ALKALINE PHOSPHATASE 84 30 - 120 U/L

Interpretation(s)

ALANINE AMINOTRANSFERASE, SERUM-Alanine aminotransferase (ALT) test measures the amount of this enzyme in the blood. ALT is found mainly in the liver, but also in smaller amounts in the kidneys, heart, muscles, and pancreas. It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health. AST levels increase during acute hepatitis, sometimes due to a viral infection, ischemia to the liver, chronic hepatitis, obstruction of bile ducts, cirrhosis. ALKALINE PHOSPHATASE, SERUM-Alkaline phosphatase (ALP) is a protein found in almost all body tissues. Tissues with higher amounts of ALP include the liver, bile ducts, and bone. Elevated Alkaline Phosphatase levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget's disease, Rickets, Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia, Malnutrition, Protein deficiency, Wilson's disease.

****End Of Report****

Please visit www.srlworld.com for related Test Information for this accession

Dr. Ashish Kumar Das
Laboratory Head

Dr. Subhadip Bhattacharjee
Consultant Pathologist



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